

## 

(43) International Publication Date 12 August 2004 (12.08.2004)

**PCT** 

## (10) International Publication Number WO 2004/066920 A3

(51) International Patent Classification<sup>7</sup>: 43/00, A61K 31/57, 31/585

C07J 5/00,

(21) International Application Number:

PCT/US2004/001191

(22) International Filing Date: 16 January 2004 (16.01.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/441,629

21 January 2003 (21.01.2003) US

(71) Applicant (for all designated States except US): MERCK & CO. INC. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): ALI, Amjad [GB/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). BALKOVEC, James, M. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). GRAHAM, Donald, W. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). GREENLEE, Mark, L. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). TAYLOR, Gayle, E. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).
- (74) Common Representative: MERCK & CO. INC.; 126
  East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

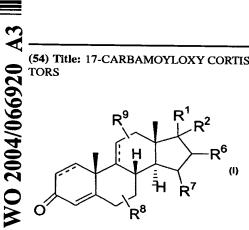
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 11 November 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 17-CARBAMOYLOXY CORTISOL DERIVATIVES AS SELECTIVE GLUCOCORTICOID RECEPTOR MODULATORS



(57) Abstract: The present invention encompasses compounds of Formula (I) or ph armaceutically acceptable salts or hydrates thereof, which are useful as selective glucocorticoid receptor ligands for treating a variety of autoimmune and inflammatory diseases or conditions. Pharamaceutical compositions and methods of use are also included.



Internation No.

		PCT/US04/01191	
A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : C07J 5/00, 43/00; A61K 31/57, 31/585  US CL : 552/566; 540/29; 514/175, 178, 179, 180			
According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 552/566; 540/29; 514/175, 178, 179, 180			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) REGISTRY, CAPLUS, USPATFULL			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category * Citation of document, with indication, where a	~~		Relevant to claim No.
A US 4,328,221 A (SZILAGYI NEE FARAGO et al entire article.	.) 04 May 1982 (04.05.	.1982), see the	1-16
Further documents are listed in the continuation of Box C.	See patent	family annex.	
Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance	date and not i principle or th		national filing date or priority ation but cited to understand the ation
"E" earlier application or patent published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to	considered no		elaimed invention cannot be ed to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	considered to	involve an inventive step	claimed invention cannot be when the document is documents, such combination
"O". document referring to an oral disclosure, use, exhibition or other means	being obvious	to a person skilled in the	art
"P" document published prior to the international filing date but later than the priority date claimed	"&" document men	mber of the same patent f	amily
Date of the actual completion of the international search  08 September 2004 (08.09.2004)	Date of mailing of the	SEP 2004	ch report
Name and mailing address of the ISA/US	Authorized officer	12 DILXO	Who
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	Barbara P. Badio, P Telephone No. 571-		
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Losophone No. 3/1-	<i>ພ, ພ</i> - 1000	$\nu$